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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID	:	**CP-2018-09-28-01** **Date: 01-10-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Providing compound wall and other works to Indira canteen near ward office HMT layout 1st block, 2nd main, Sommanna Garden in ward no.09
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' Main road, 3rd 'Y' block, Rajajinaara, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/137/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-09-18
Sample ID No	:	2018-09-28-01 /04
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	29-09-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.39	510	662	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.626	538	653	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.889	544	648	19.0%	Satisfactory	Satisfactory

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID : **CP-2018-09-28-01** **Date: 03-10-18**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Providing compound wall and other works to Indira canteen near ward office HMT layout 1st block, 2nd main, Sommanna Garden in ward no.09

Agency : Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' Main road, 3rd 'Y' block, Rajajinaara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/137/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-09-18

Sample ID No : 2018-09-28-01 /04

Sample Type /Size : CC Kerb Stone/ 450*165*400mm

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 29/09/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.01	165.76	2.854	7854	138.9	17.7	17.7	22.1
2	B	100.03	165.22	2.763	7857	136.8	17.4	17.4	21.8
3	C	100.01	165.38	2.745	7854	141.3	18.0	18.0	22.5

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-09-28-01** **Date: 01-10-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Providing compound wall and other works to Indira canteen near ward office HMT layout 1st block, 2nd main, Sommanna Garden in ward no.09
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' Main road, 3rd 'Y' block, Rajajinaara, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/137/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-09-18
Sample ID No	:	2018-09-28-01 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	29-09-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.85	–
2	Finess by Air permeablity method (m^2/kg,Min)	295.5	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	185 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-09-28-01** **Date: 06-10-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Providing compound wall and other works to Indira canteen near ward office HMT layout 1st block, 2nd main, Sommanna Garden in ward no.09
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' Main road, 3rd 'Y' block, Rajajinaara, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/137/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-09-18
Sample ID No	:	2018-09-28-01 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	29-09-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-09-28-01** **Date: 01-10-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Providing compound wall and other works to Indira canteen near ward office HMT layout 1st block, 2nd main, Sommanna Garden in ward no.09
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' Main road, 3rd 'Y' block, Rajajinaara, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/137/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	28-09-18
Sample ID No	:	2018-09-28-01 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	28-09-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	280	280	1.9	98.1	90-100
3	20 mm	5289	5569	37.1	62.9	30-70
4	10 mm	4700	10269	68.5	31.5	10-35
5	4.75 mm	4190	14459	96.4	3.6	0-5
6	Pan	541	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-09-28-01** **Date: 01-10-18**

Sample ID No : 2018-09-28-01 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**12.6**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**11.7**	
3	Specific Gravity	**2.67**	_
4	Bulk Density(Loose) (Kg/l)	**1.54**	_
5	Bulk Density(Compacted) (Kg/l)	**1.58**	_
6	Water Absorption(%)	**0.22**	_

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-09-28-01** **Date: 01-10-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Providing compound wall and other works to Indira canteen near ward office HMT layout 1st block, 2nd main, Sommanna Garden in ward no.09
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' Main road, 3rd 'Y' block, Rajajinaara, Bangalore-560010
Customer Reference	:	BBMP/EE/BTP/WO/137/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-09-18
Sample ID No	:	2018-09-28-01 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	28-09-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	573	573	11.5	88.5	90-100
3	10 mm	2337	2910	58.2	41.8	25-55
4	4.75 mm	1736	4646	92.9	7.1	0-10
5	Pan	354	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-09-28-01** **Date: 01-10-18**

Sample ID No : 2018-09-28-01 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**12.5**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**11.9**	
3	Specific Gravity	**2.62**	_
4	Bulk Density(Loose) (Kg/l)	**1.52**	_
5	Bulk Density(Compacted) (Kg/l)	**1.58**	_
6	Water Absorption(%)	**0.25**	_
7	Aggregate crushing Value(%)	**22.4**	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	**23.1**	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-09-28-01** **Date: 01-10-18**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Providing compound wall and other works to Indira canteen near ward office HMT layout 1st block, 2nd main, Sommanna Garden in ward no.09

Agency : Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' Main road, 3rd 'Y' block, Rajajinaara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/137/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-09-18

Sample ID No : 2018-09-28-01 /03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 28-09-18

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	33	33	3.3	96.7	90-100	90-100	90-100	95-100
3	2.36 mm	189	222	22.2	77.8	60-95	75-100	85-100	95-100
4	1.18 mm	100	322	32.2	67.8	30-70	55-90	75-100	90-100
5	600 micron	180	502	50.2	49.8	15-34	35-59	60-79	80-100
6	300 micron	277	779	77.9	22.1	5-20	8-30	12-40	15-50
7	150 micron	144	923	92.3	7.7	0-10	0-10	0-10	0-15
8	Pan	77	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-09-28-01** **Date: 01-10-18**

Sample ID No : 2018-09-28-01 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.85	–
2	Specific Gravity	2.58	–
3	Material finer than 75 micron(%)	7.2	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2018-09-28-01** **Date: 03-10-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Providing compound wall and other works to Indira canteen near ward office HMT layout 1st block, 2nd main, Sommanna Garden in ward no.09
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' Main road, 3rd 'Y' block, Rajajinaara, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/137/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-09-18
Sample ID No	:	2018-09-28-01 /07
Sample Type/Size	:	Solid concrete blocks size (400X100X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	29-09-18

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	401	151	203	12292	24.890	2024.9	2020.4	Not less than 1800Kg/m^3
2	402	152	201	12282	24.860	2024.1		
3	401	150	203	12210	24.570	2012.2		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	25.890	24.450	5.89	5.72	Shall not be more than 10% by mass
2	25.950	24.630	5.36		
3	25.790	24.350	5.91		

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Lab ID : **CP-2018-09-28-01** **Date: 03-10-18**

Sample ID No : **2018-09-28-01 /07**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	402	150	202	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	401	151	201	
3	403	152	203	
4	401	152	201	
5	400	149	203	
6	402	151	201	
7	401	150	200	
8	403	152	201	
9	401	150	203	
10	402	153	202	
11	401	152	201	
12	403	151	203	
13	402	149	201	
14	401	151	203	
15	402	150	201	
16	401	152	203	
17	403	151	198	
18	401	152	203	
19	402	153	201	
20	401	149	202	
Average of 20	**402**	**151**	**202**	

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Lab ID : **CP-2018-09-28-01** **Date: 03-10-18**

Sample ID No : 2018-09-28-01 /07

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	402	150	60300		0.0	0.0
2	401	151	60551		0.0	
3	403	152	61256		0.0	
4	401	152	60952		0.0	
5	400	149	59600		0.0	
6	402	151	60702		0.0	
7	401	150	60150		0.0	
8	403	152	61256		0.0	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-10-05-01** **Date: 10/10/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Providing compound wall and other works to Indira canteen near ward office HMT layout 1st block, 2nd main, Sommanna Garden in ward no.09

Agency : Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' Main road, 3rd 'Y' block, Rajajinaara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/137/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-10-18

Sample ID No : 2018-10-05-01 /01

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	03/10/2018	10/10/2018	149.03 X 149.33 X 150.13	22255	8.581	276.0	12.4	12.8
2	PCC	M15	03/10/2018	10/10/2018	150.15 X 151.84 X 151.85	22798	8.403	298.7	13.1	
3	PCC	M15	03/10/2018	10/10/2018	151.55 X 149.58 X 149.11	22668	8.367	290.2	12.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-10-09-01** **Date: 13/10/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Providing compound wall and other works to Indira canteen near ward office HMT layout 1st block, 2nd main, Sommanna Garden in ward no.09

Agency : Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' Main road, 3rd 'Y' block, Rajajinaara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/137/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 09-10-18

Sample ID No : 2018-10-09-01 /03

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	06/10/2018	13/10/2018	150.51 X 150.72 X 149.17	22685	8.213	410.6	18.1	17.7
2	M20 Concrete	M20	06/10/2018	13/10/2018	149.82 X 149.09 X 150.42	22337	8.174	388.7	17.4	
3	M20 Concrete	M20	06/10/2018	13/10/2018	149.49 X 151.67 X 151.27	22674	8.142	401.3	17.7	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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****End of Report****